

Product datasheet for **RG227475**

NSP3 (SH2D3C) (NM_001142534) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSP3 (SH2D3C) (NM_001142534) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NSP3
Synonyms:	CHAT; NSP3; PRO34088; SHEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG227475 representing NM_001142534
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCGAGCGGTGCAGCCTGTGGAGTGCCTGTGCGCCGCCCTGCTGCTTCTACCGCGCTCCTTCG
TGCAGTTCCTCAAGGAGAAGTACATCCTGGACTCATCGCCAGAGAACTCCACAAGGAATTGGAGGAGGA
GCTCAAACCTCAGCAGCACGGATCTCCGAGCCTGCTGGTACCATGGCCGCATCCCCGAGAGGTCTCG
GAGACCTTGGTACAACGCAACGGCGACTTCTCATCCGGGACTCACTCACCAGCCTGGGCGACTATGTGC
TCACGTGCCGCTGGCGCAACCAGGCCTTGCACTTCAAGATCAACAAGGTGGTGGTGAAGGCGAGGAGAG
CTACACACACATCCAGTACCTGTTTGGAGCAGGAGACTTTGACCACGTGCCCGCCCTCGTGCCTATCAT
GTGGGCAGCCGCAAGGCTGTGTGAGCAGAGTGGTGCATCATCTACTGCCCGGTGAACCGCACCTTCC
CACTGCGTACCTCGAGGCCAGCTATGGCCTGGGACAGGGGAGTAGCAAGCCTGTAGCCCCGTAGCCCC
CTCAGGCCCAAGGGCAGCCACATGAAGCGGCGCAGCGTCACCATGACCGATGGGCTCAGTGTGACAAG
GTCACCCGCAGCGATGGCTGCCCCACCAGTACGTGCTGCCCGCCCTCGGGACTCCATCCGCAGCTGTG
CCCTCAGCATGGACCAGATCCCAGACCTGCACTCACCCATGTGCGCCATCTCCGAGAGCCCTAGCTCCCC
TGCCACAGCACTGTAACCCGTGTCCATGCCGCCCCTGCAGCCCCTTCTGCCACAGCATTGCCTGCCTCC
CCTGTGCGCCCGCTTCCAGTGAGCCCCAGCTGTGTCCCGAAGTGCCCCAAAGACCCATGGGGAGTCAG
ACAAGGGCCCCACACCAGCCCCCCCACACCTTGGCAAGGCCCTCCCGTCACCATCACTCAGCAGCTA
CAGTGACCCGACTCTGGCCACTACTGCCAGCTCCAGCCTCCCGTGCCTGGCAGCCGAGAGTGGGACGG
ACTGAGACCTCCAGCCAGCAGCCAGGAGCTATGGGAGAGGCTAAAGGAACTGTCAGAAAATGGGGCCC
CTGAAGGGGACTGGGGCAAGACCTTACAGTCCCACATCGTGGAAGTCATTCTTCCCTTCAACCCGGCCAC
CTTCCAGTCACTACTGATCCCCAGGGATAACCGGCCACTGGAGGTGGGCTTCTGCGCAAGGTCAAGGAG
CTGCTGGCAGAAGTGGATGCCCGGACGCTGGCCCGCATGTACCAAGGTGGACTGCCTGGTTGCTAGGA
TACTGGGCGTTACCAAGGAGATGCAGACCCTAATGGGAGTCCGCTGGGGCATGGAAGTGCCTCACCCTCCC
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AGCTGCGGGGACTATGGGCAACATGTTACGCTTCGCGCGGTTCATGGGTGCCCTGGACATGGCCAGAT
TTCTCGGCTGGAGCAGACATGGGTGACCCTGCGGCAGCGACACACAGAGGGTCCATCCTGTACGAGAAG
AAGCTCAAGCCTTTTCTCAAGAGCCTCAACGAGGGCAAAGAAGGCCCGCCGCTGAGCAACACCACGTTTC
TCATGTGCTGCCCTCATCACCTGCTGGAGTGTGACTCGGCCCCACCAGAGGGCCCTGAGCCCTGGGG
CAGCACGGAGCACGGCGTGGAGGTGGTGTGGCTCACCTGGAGGCCGCCGCACAGTGGCACACCACGGA
GGCCTGTACCACCAATGCTGAAGTCAAGTGCAGGGTTCCAGGCCCGGCCGGAGCTCCTGGAGGTGT
TCAGCACGGAGTCCAGATGCGCCTTCTCTGGGCAGTCAAGGTGCCAGCAGCAGCCAGGCCCGCGCTA
TGAGAAGTTCGACAAGGTCTCACTGCCCTGTCCACAAGCTGGAACCTGCTGTCCGCTCCAGCGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227475 representing NM_001142534
Red=Cloning site Green=Tags(s)

MTERCSLWSALSAACCFYRGSFVQFSKEKYILDSSPEKLHKELEELKLSSTDLRSHAWYHGRIPREVS
 ETLVQRNGDFLIRDLSL TSLGDYVLT CRWRNQALHFKINKVVKAGESYTHIQYLFEQESFDHVPALVRYH
 VGSRKAVSEQSGAIIYCPVNRTFPLRYLEASYGLGQSSKSPASVSPSPGPKGSHMKRRSVTMTDGLTADK
 VTRSDGCPTSTSLPRPRDSIRSCALSMDQIPDLHSPMSPISESPSSPAYSTVTRVHAAPAAPSATALPAS
 PVARRSSEPQLCPGSAPKTHGESDKGPHTSPSHTLGKASPSPLSSYSDPDSGHYQQLQPPVRSREWAA
 TETSSQARSYGERLKELSENGAPEGDWGTFTVPIVEVTSSFNPATFQSLIPDRNRPLEVGLLRKVKKE
 LLAEVDARTLARHVTKVDCLVARILGVTKEMQTLMGVVRWGMELLTLPHGRQLRLDLLERFHTMSIMLAVD
 ILGCTGSAEERAALLHKTIQLAELRGTMGNMFSFAAVMGALDMAQISRLEQTWVTLRQRHTEGAILYEK
 KLPKFLKSLNEGKEGPPLSNTTFPHVPLITLLECD SAPPEGPEPWGSTEHGVEVLAHLEAARTVAHHG
 GLYHTNAEVKLQGFQARPELLEVFSTEFQMRLWGSQGASSSQARRYEKFDKVL TALS HKLEPAVRSEL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001142534

ORF Size: 2100 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001142534.1](#), [NP_001136006.1](#)

RefSeq Size: 2666 bp

RefSeq ORF: 2103 bp

Locus ID: 10044

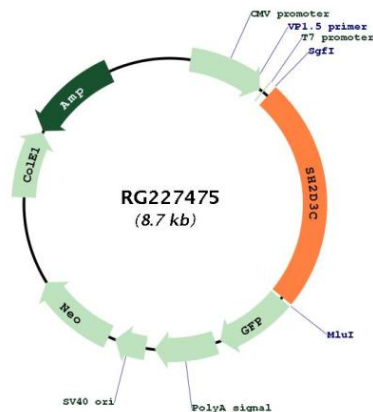
UniProt ID: [Q8N5H7](#)

Cytogenetics: 9q34.11

Protein Families: Druggable Genome

Gene Summary: This gene encodes an adaptor protein and member of a cytoplasmic protein family involved in cell migration. The encoded protein contains a putative Src homology 2 (SH2) domain and guanine nucleotide exchange factor-like domain which allows this signaling protein to form a complex with scaffolding protein Crk-associated substrate. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG227475